

60 people and we are looking to hire 10 more, including electricians. engineers and analysts. Five years ago, we employed two people."

Mel Kurtz, CEO of Quasar Energy Group

cused on developing the region's high-

tech economy. NorTech has for more than a year brought together both startup and established companies from throughout the region, organizing them into working groups that meet regularly.

The result has been a kind of synergy, a recognition on the grass-roots level of the manufacturing and engineering might of the region.

David Karpinski of NorTech describes it as "a road map" to building concentrations or "clusters" of compa-

"These three companies connected

screen," he said.

Quasar Energy Group

Quasar Energy Group of Cleveland has built anaerobic digesters in Akron, Columbus, Wooster, Zanesville and Rutland, Mass. It plans projects in Barberton, Uniontown, Wooster (a second one), North Ridgeville, Grand Lake St. Marys and Toledo.

The company has two projects under construction in Cleveland and Haviland, as well as expansion plans for the existing digesters in Columbus and Zanesville.

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Squeezing fuel out of anything

"We have \$100 million in back orders," Quasar Chief Executive Mel Kurtz said in an interview last week.

and we are looking to hire 10 more, including electricians, engineers and analysts," he said. "Five years ago, we employed two people."

Quasar's first project was to build a digester for the city of Akron's sewage treatment plant in 2007, using German technology. own system. And its equipment is assembled from components manufactured in Ohio, or in a few cases another state.

bacteria that live in the bowels of cows. Anaerobic (which means tech computer control system is

the absence of oxygen) digesters are not new, but building one that is efficient and productive enough to be a commercial success would be new.

One reason Quasar may succeed is that once the company proved its technology, it received millions of dollars in state and federal grants.

That aid includes research the company's engineers are doing "We employ about 60 people on the Wooster campus of Ohio State University's Ohio Agricultural Research and Development Center, where they are working side-by-side with OSU profes-

Kurtz expresses certainty that Quasar will succeed without subsidies. One reason is that he intends eventually to begin selling Today, Quasar has engineered its liquefied natural gas as a truck fuel rather than using the digester gas only to generate electricity.

Another reason he can be con-The digesters really do digest fident that Quasar's digesters the materials, using the same have a leg up on traditional digester technology is that its high-

sion of Rockwell Automation.

Rockwell, based in Milwaukee, is a global company with the that Garrett says is similar to the oil. Polyflow's plans, though, are kind of expertise that a startup like Quasar does not typically employ, not without the kind of networking provided by Nor-

Quasar's programmable logic control system was designed in Mayfield Heights, and most of it was manufactured in Twinsburg, said David Mayewski, Rockwell's business development leader here.

Vadxx Energy, Polyflow

Akron is the starting point for the two plastics-to-fuel companies as well.

Vadxx Energy LLC, with offices in Cleveland, has been testing a small reactor vessel in Akron that company Chief Executive James Garrett says is ready to ramp up immediately.

The process — "thermal depolymerization" - can break down any plastic using a proprietary technology that heats the

crucible.

The system turns out an oil very best U.S. oil. He is already talking with refineries to take the oil to blend with lesser grades of crude.

Houston for its first big project handling the city of Akron's curbsaid he expects to be able to procrude annually.

In addition to using the plastics, Garrett plans to build units nies have benefited from the asthat produce oil from shredded tires.

since 2008 with a technology based plastic or synthetic fiber is a good one." into oil.

made by the Northeast Ohio divi-shredded material in an airtight said the company has run about Polyflow builds its commercial 70 batches, each turning 350 pounds of scrap plastic into an to further refine the oil into gasoline and diesel.

> The company, in conjunction with Youngstown State Univer-The company has partnered sity, has won a \$1.6 million grant with Greenstar Recycling of to build the testing equipment that will analyze the oils, look for contaminants or help decide side recyclable materials. Garrett what might have to be added, said Michael Hripko, YSU's diduce 80,000 barrels of light rector of research and technology-based economic development.

Like Quasar, the two compasociation with NorTech.

"NorTech is one plus one Also in Akron is Polyflow, a equals three," Garrett said. "They company that has experimented introduced us to people we would never have been introthat can convert any polymer- duced to. NorTech's cluster idea

Schabel said he intends to look Jay Schabel, chief executive, to Rockwell Automation when

Both Schabel and Garrett believe they can break even when crude oil is selling at \$35 to \$40 per barrel, meaning at today's \$80- to \$100-per-barrel range, they can do very well.

Both men say their machines are manufactured here from components also made here.

Polyflow's first large unit will be built by Niagara Systems of Perry.

Vadxx has partnered with Weingart Manufacturing LLC to create the Akros Equipment Co., which will manufacture the Vadxx processors.

Brooks Weingart said Akros is projecting building 100 processors in five years, creating 105 manufacturing jobs and overall 350 jobs throughout the region.

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PIKETON — As the U.S. Department of Energy demolishes a former uranium-processing plant in southern Ohio, efit nearby counties.

Plant has generated more than 8 million pounds of metal for recycling, reports.

The energy department offers the metal to the Southern Ohio Diversification Initiative, which sells it to recyclers.

So far, 5.2 million pounds of it has been sold, with half the sales going toward a fund for economic development in the surrounding counties. The fund has gained \$2.8 million from the sales.

The money will benefit

well as other clean demolition debris and usable equipment from the cleanup effort.

Local jobs are being created. the metal is being sold to ben- with the proceeds of the sales, said Peter Mingus, who works Demolition of the Ports- with the recycling and recovmouth Gaseous Diffusion ery program for the contractor that is dismantling the site.

according to plans to demolish 314 build-

8-21-11 counties. The energy departings at the site, and the energy ment is providing the metal, as department will continue to offer the metal for sale to recyclers, site director Vince Adams said:

"We continue to look closely at every building and structure we take down to find ways to recycle the material generated and return it to the community for every possible opportunity The energy department to boost the local economy. Adams said.

